

HIGH DAMPING MATERIAL OF MG ALLOY AND ITS MANUFACTURE

Publication number: JP2057657 (A)

Publication date: 1990-02-27

Inventor(s): SHOJI SATORU +

Applicant(s): FURUKAWA ALUMINIUM +

Classification:


- **international:** *C22C23/00*; (IPC1-7): C22C23/00

- **European:**

Application number: JP19880207271 19880823

Priority number(s): JP19880207271 19880823

Cited documents:

 JP2047238 (A)

Abstract of **JP 2057657 (A)**

PURPOSE:To manufacture the title material having excellent vibration damping characteristics in which structure is regulated to the recrystallized one of fine grain size by subjecting the ingot of an Mg-Si alloy having specific compsn. to rolling and extruding and thereafter annealing it in the range of specific temp. CONSTITUTION:An Mg alloy contg. 0.2 to 10wt.% Si is refined and cast into a billet. The billet is subjected to homogenizing treatment, e.g., at 470 deg.C for 8hr and is thereafter subjected to hot extruding or hot rolling at 400 deg.C to work into a plate material of 2 to 3mm thickness. The material is annealed at 250 to 500 deg.C for 4hr to 1min to regulate the structure to recrystallized one of $\geq 10\mu\text{m}$ grain size, by which the Mg alloy high damping material having excellent vibration damping characteristics and having excellent strength, formability, dimensional accuracy, surface properties, etc., is manufactured. Furthermore, in the manufacturing stage, homogenizing treatment to the ingot is not necessarily needed.

.....
Data supplied from the **espacenet** database — Worldwide